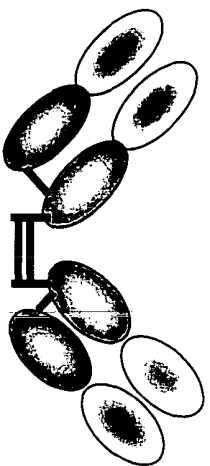
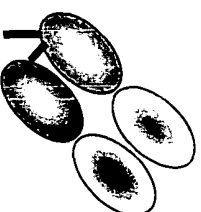


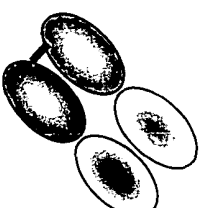
Figure 1A: General Schematic of antibody structure



F(ab')₂

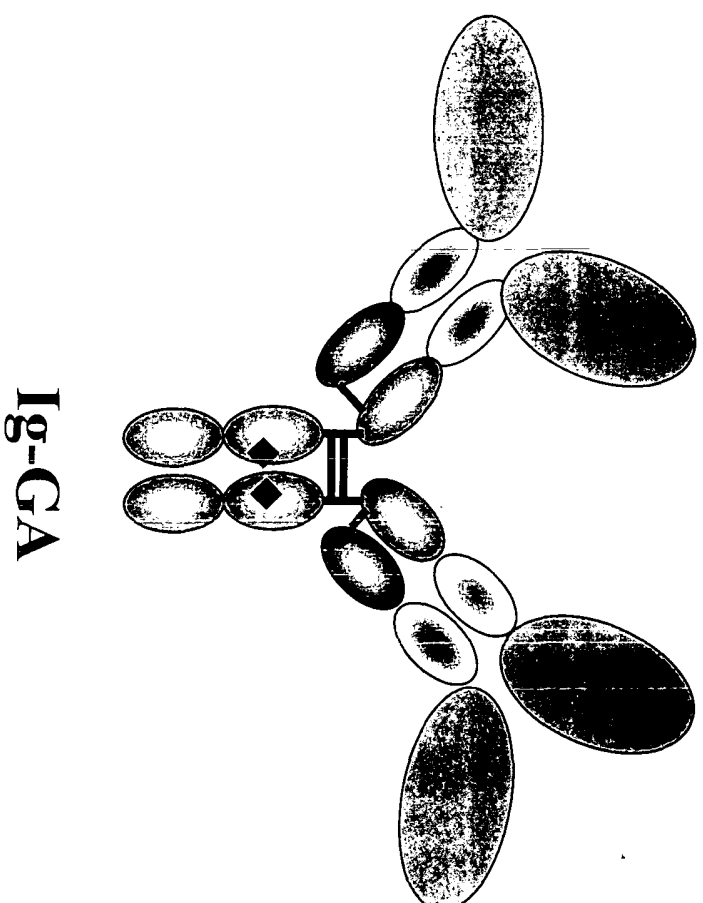


Fab'



Fab

Figure 1B: General Schematic of antibody fragments



Ig-GA

Figure 1C: General Schematic of Antibody-Glucoamylase fusion

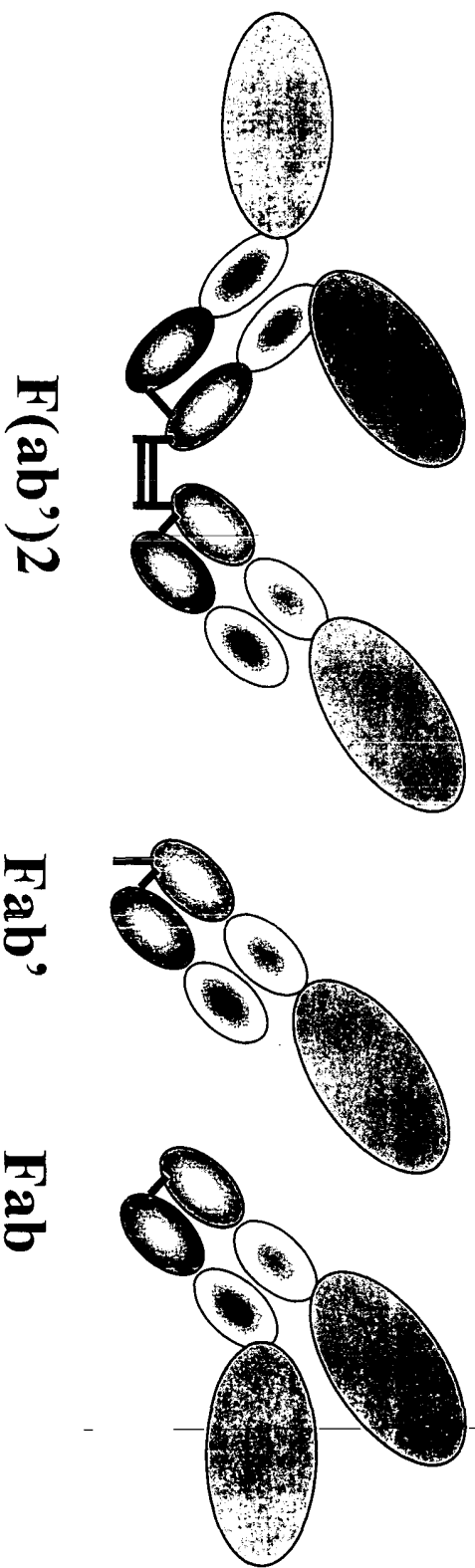


Figure 1D: General Schematic of Antibody fragment-Glucosylase fusions

Adsorption by Hydrophobic Association

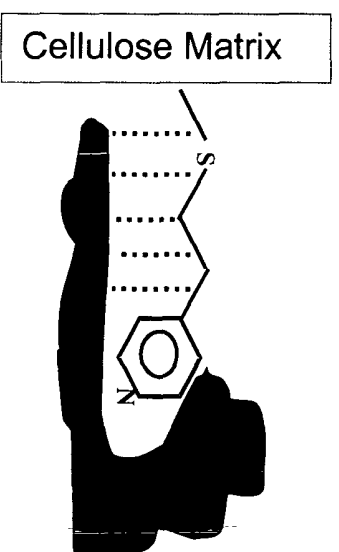


Figure 2A

Desorption by Ionic Repulsion

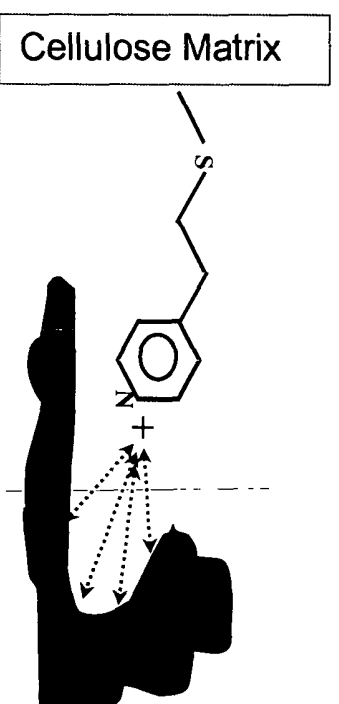


Figure 2B

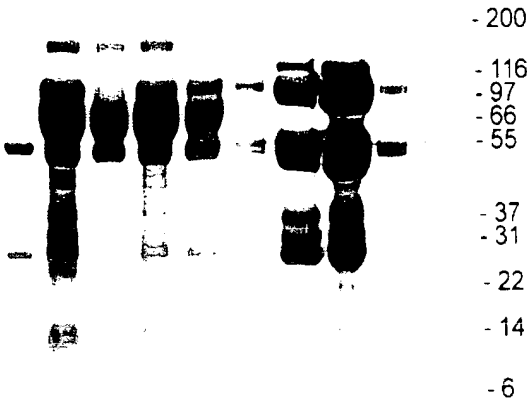
Figure 3B

PAC062602

4-12%
Bis-Tris
MES
SDS

Reducing

- Herceptin
- Feed: 20020503
supernatant
- A1
- A5
- A6
- A7
- A10
- A11
- A12



PAC062602

4-12%
Bis-Tris
MOPS
SDS

Non-reducing

- Herceptin
- Feed: 20020503
supernatant
- A1
- A5
- A6
- A7
- A10
- A11
- A12

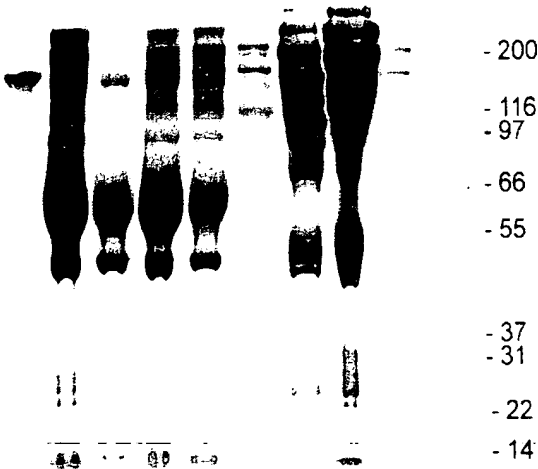


Figure 3A

Sample loaded: 50 mL treated Fermentation 503 Supernatant UFC. Treatment includes neutralization of 500 mL to pH 7.7 with 50 mL 1 M NaOH; centrifugation 25000xg; and vacuum filtration through 0.8, 0.45, and 0.22 μ m filters with 10 g FW12 precoat.

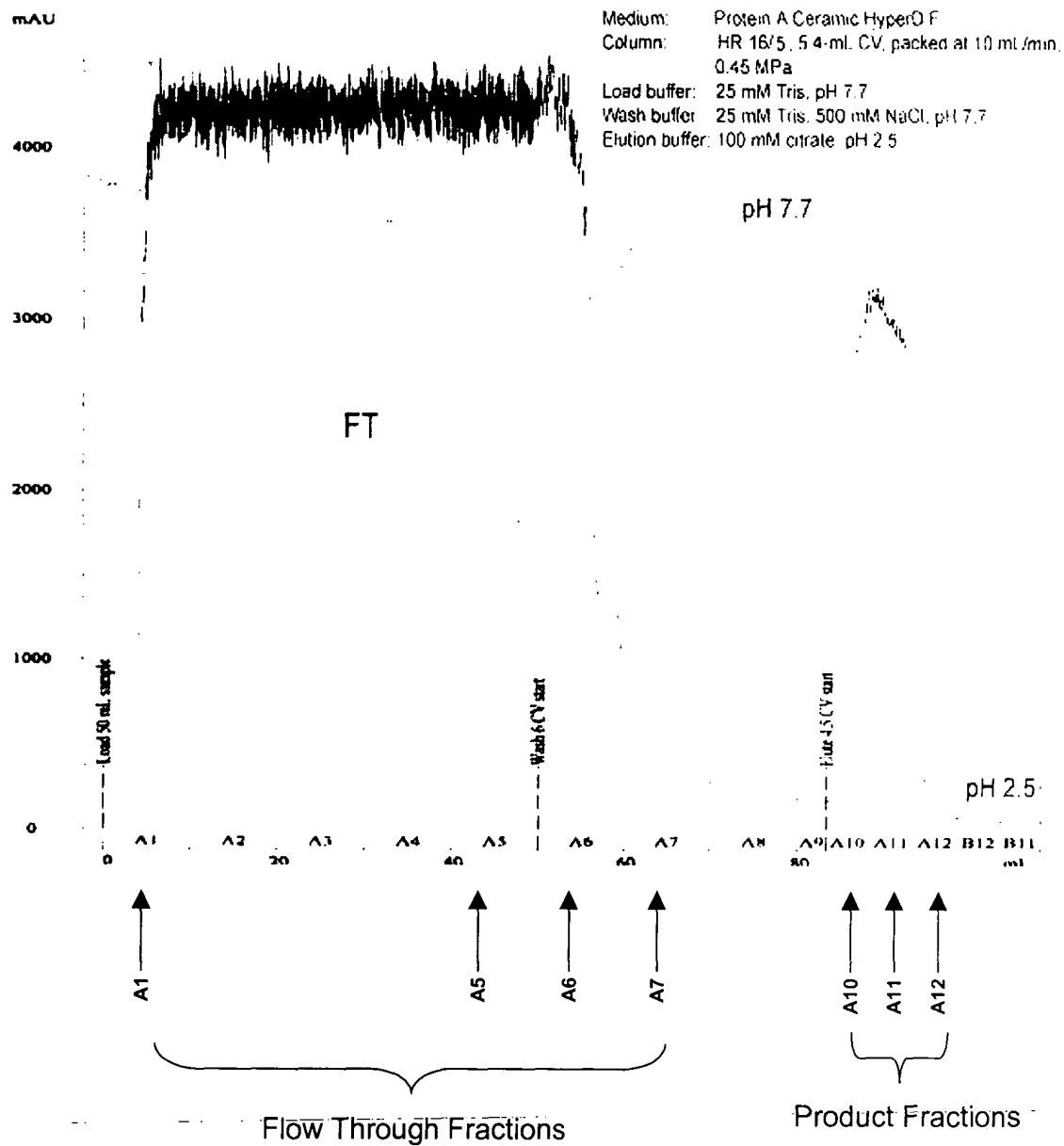


Figure 4A

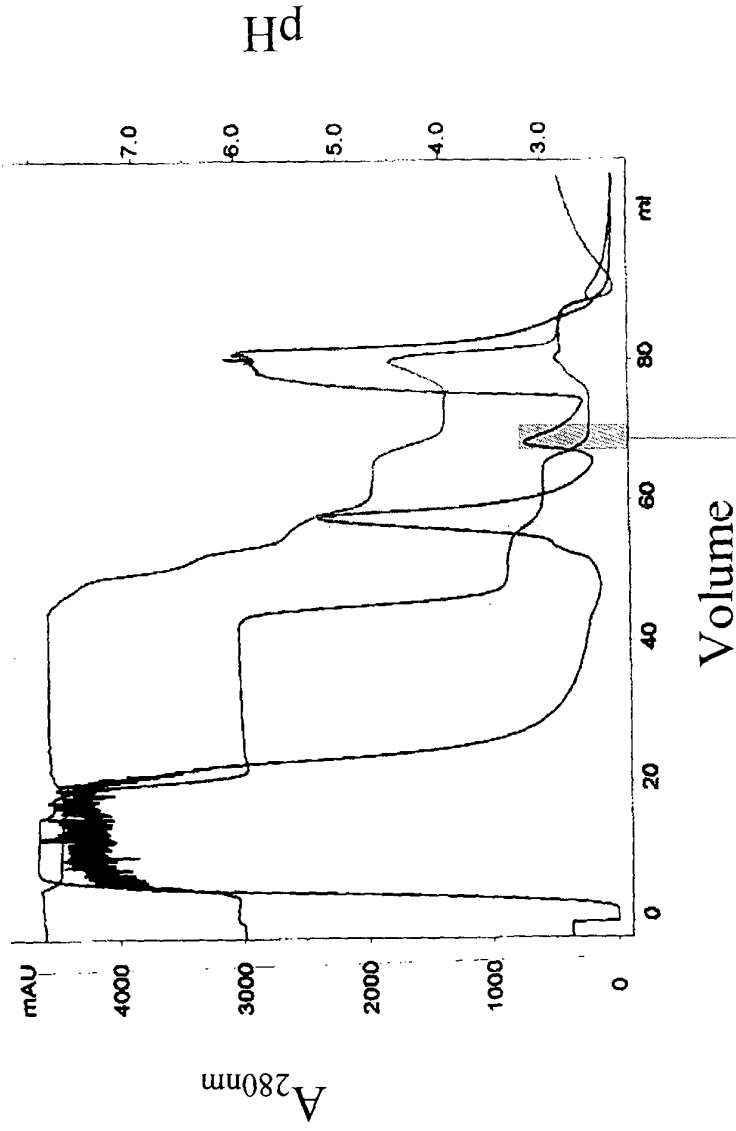


Figure 4B

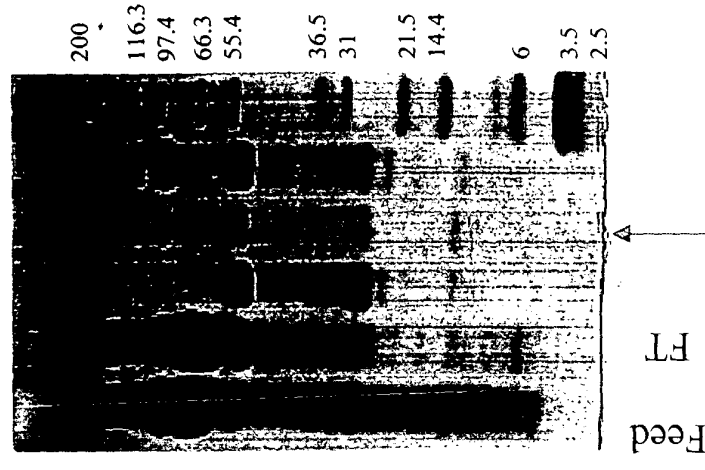


Figure 4: HCIC for mAb/mAB-GA Separation

Figure 5A

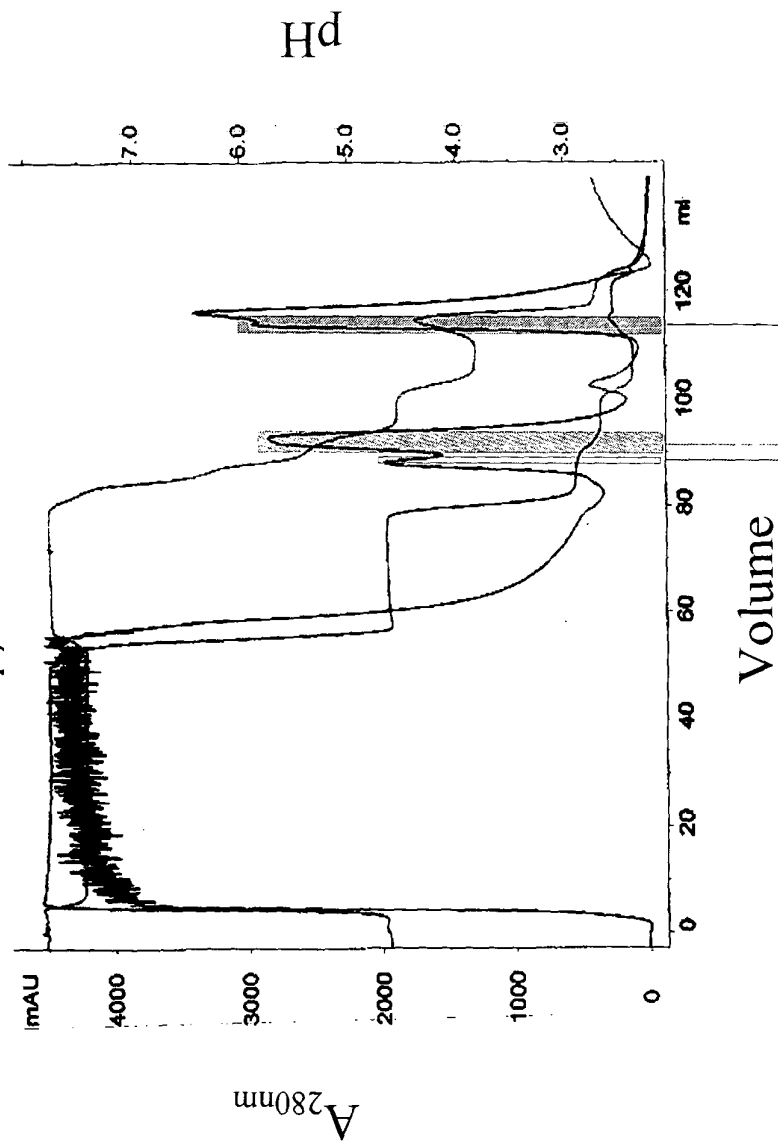


Figure 5B

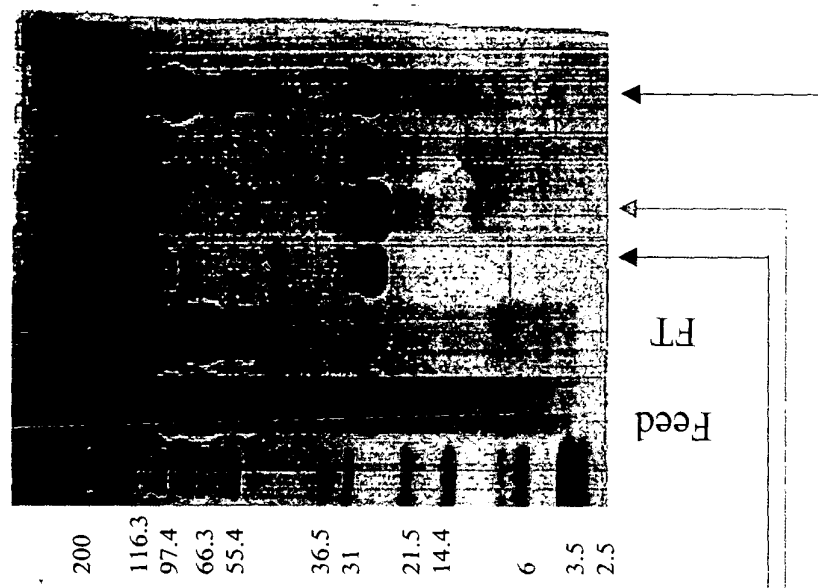


Figure 5: HCIC for Fab'/Fab'-GA Separation

Figure 6

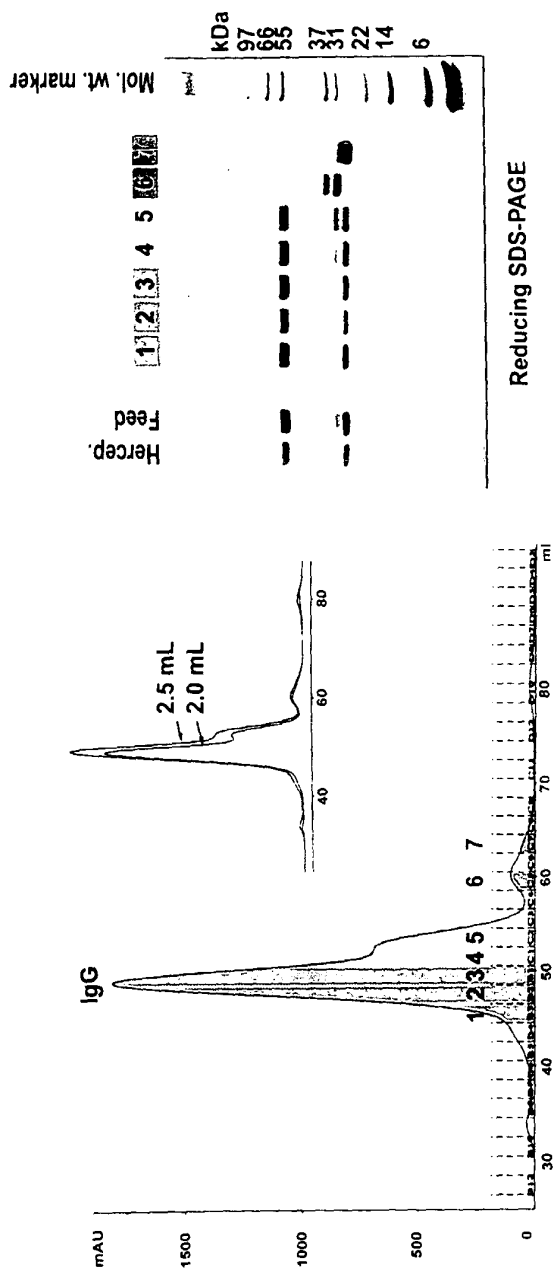


Figure 7

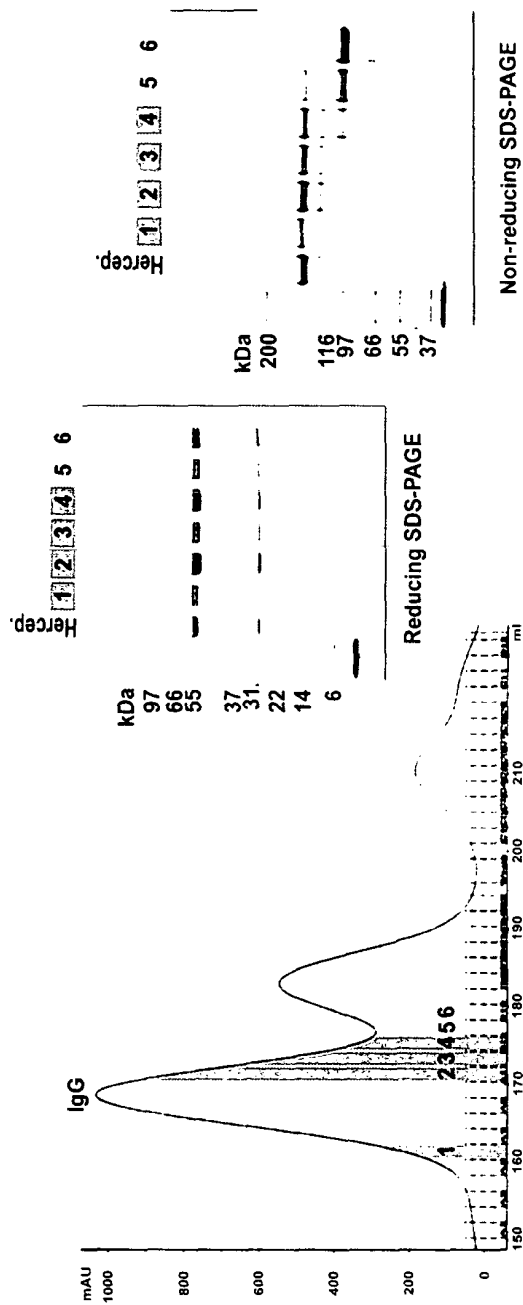


Figure 8

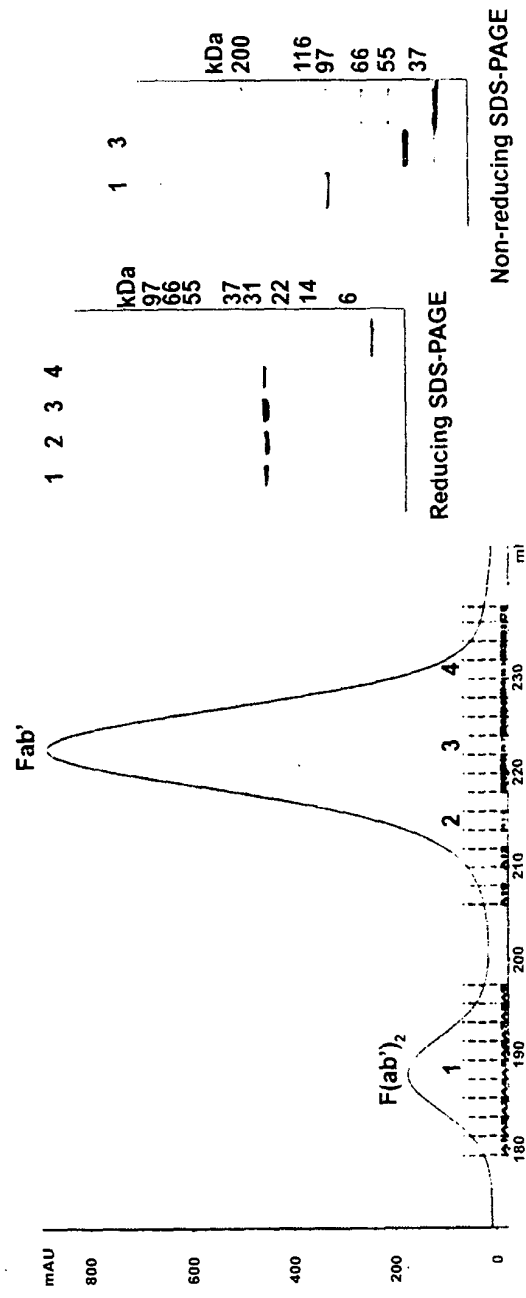
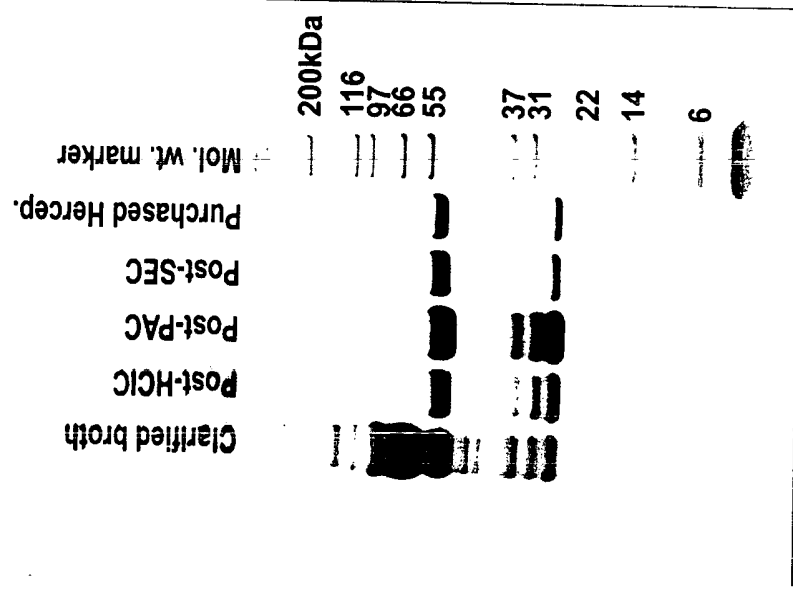


Figure 9



Reducing SDS-PAGE